

GaAs monolithic microwave power splitter

18~26GHz

key indicator

- Frequency range: 18~26GHz
- Insertion loss: ≤0.9dB@26GHz
- Good input/output standing wave ratio: ≤1.2:1
- Chip size: 1.14mm×1.25mm×0.1mm

typical application

- Radar and electronic countermeasures
- RF/Microwave Circuit
- Military and aerospace
- Test measurement
- Instrumentation

Product Introduction

AY1362 is a 0° ultra-wideband power divider chip. The operating frequency covers 18~26GHz, and the insertion loss is less than 0.9dB.

The output standing wave ratio is less than 1.2:1.

The chip adopts an on-chip metallization process to ensure good grounding, and is suitable for eutectic sintering or conductive adhesive bonding processes.

Electrical performance (T_A=25 °C, Z₀=50Ω)

parameter name	symbol	Test Conditions	Parameter value			unit
			MIN	TYP	MAX	
Frequency Range	f	Z _{in} =Z _{out} =50Ω T _A =+25°C	18	—	26	GHz
Insertion loss	IL		—	—	-0.9	dB
Input standing wave ratio	VSWR		—	—	1.8	:1
Output standing wave ratio			—	—	1.2	:1
Isolation	ISO		-19	—	—	dB

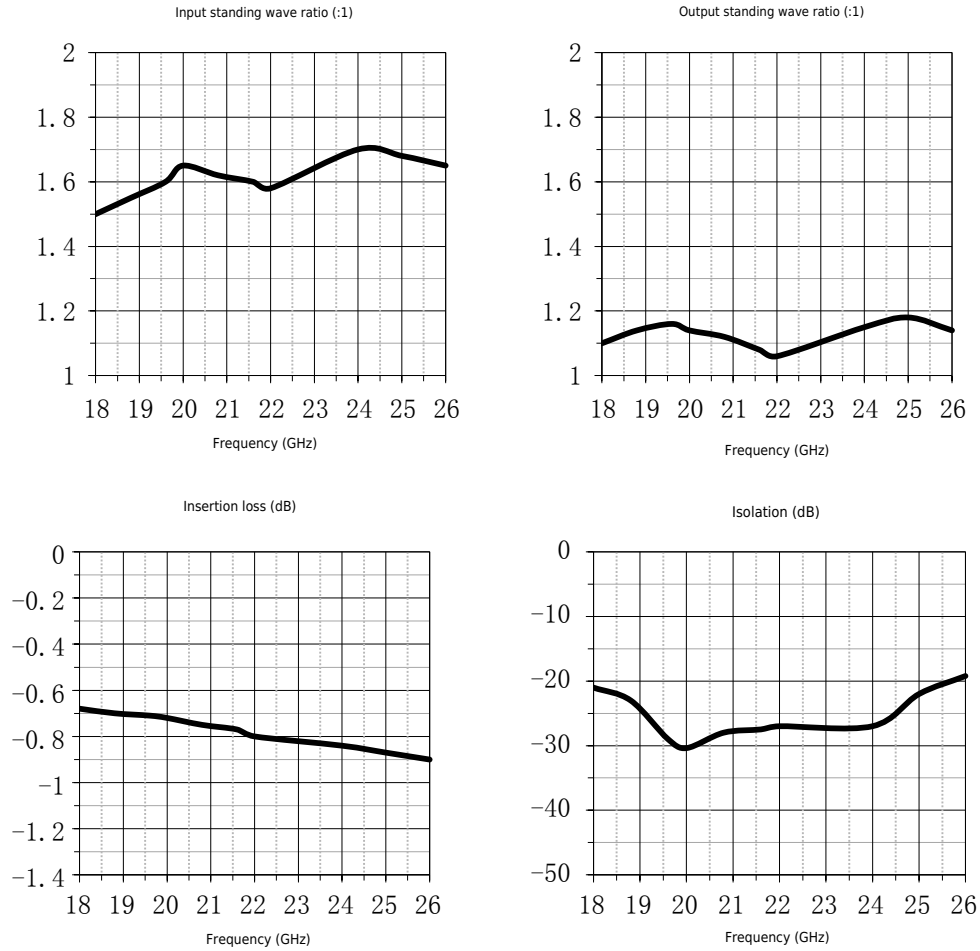
Absolute maximum ratings

Maximum input RF power	+27dBm	Operating temperature	-55 °C ~ + 85 °C
Channel temperature	150 °C	Storage temperature	-65 °C ~ + 150 °C

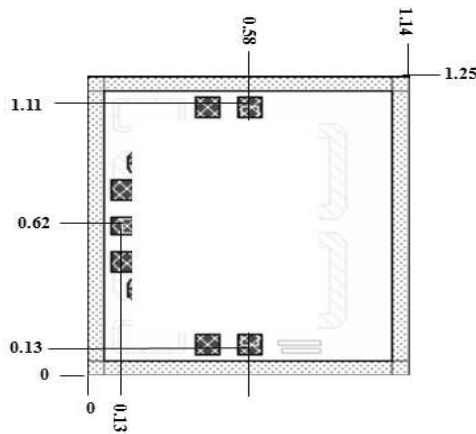
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Typical test curve



Shape and port size (mm)



Precautions

Gallium arsenide MMIC devices are susceptible to electrostatic discharge damage. Precautions should be taken during transportation, assembly and testing.